EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	8	US-3932500-$.DID. OR US-5426221-$.DID. OR US-5780679-$.DID. OR US-5780688-$.DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 08:04
L2	2	("5705688").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/25 08:04
L3	0	"US-3932500.DID."$.US	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 08:04
L4	0	"US-3932500.DID$.""".US"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 08:04
L5	508	(562/600).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/25 09:17
L6	1032772	column	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 08:25
L7	3217034	3 or three	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 09:08
L8	48311	l6 near10 l7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 08:26
L9	37	l5 and l8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 08:26
L10	37407	l6 near5 l7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 08:27
L11	24	l9 and l10	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 08:35

EAST Search History

L12	13	l9 not l11	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 08:35
L13	4205435	section	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 09:29
L14	118131	l13 near5 l7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 09:10
L15	1169	l6 near10 l14	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 09:10
L16	1	"l45" and l15	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 09:10
L17	4	l5 and l15	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 09:11
L18	351	((acrylic or methacrylic or "(meth)acrylic") and (column or section) and (three or 3)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 09:20
L19	148	((acrylic or methacrylic or "(meth)acrylic") and (column or section) and (three or 3)).clm.	US-PGPUB	OR	ON	2007/04/25 09:21
L20	2	l5 and l18	US-PGPUB	OR	ON	2007/04/25 09:21
L21	4205435	section or sections	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 09:26
L22	2422	l14 same l6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 09:27
L23	5	l5 and l22	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 09:27
L24	361787	partition	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 09:29

EAST Search History

L25	7936	l7 near5 l24	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 09:30
L26	0	l5 same l25	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 09:30
L27	199	l6 same l25	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 09:30
L29	0	l5 and l27	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/25 09:33
L30	2	("7029556").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/25 09:45
L31	2	("6995282").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/25 09:48
L32	2	("6281386").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/25 09:50
L33	2	("6352619").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/25 09:50
L34	2	("5705688").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/25 09:51
L35	2	("5734075").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/25 10:06
L36	2	("2005176997").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/25 10:07
L37	2	("20050176997").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/25 10:07

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 JAN 08 CHEMLIST enhanced with New Zealand Inventory of Chemicals
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NEWS 4 JAN 16 IPC version 2007.01 thesaurus available on STN
NEWS 5 JAN 16 WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 6 JAN 22 CA/CAplus updated with revised CAS roles
NEWS 7 JAN 22 CA/CAplus enhanced with patent applications from India
NEWS 8 JAN 29 PHAR reloaded with new search and display fields
NEWS 9 JAN 29 CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 10 FEB 15 PATDPASPC enhanced with Drug Approval numbers
NEWS 11 FEB 15 RUSSIAPAT enhanced with pre-1994 records
NEWS 12 FEB 23 KOREAPAT enhanced with IPC 8 features and functionality
NEWS 13 FEB 26 MEDLINE reloaded with enhancements
NEWS 14 FEB 26 EMBASE enhanced with Clinical Trial Number field
NEWS 15 FEB 26 TOXCENTER enhanced with reloaded MEDLINE
NEWS 16 FEB 26 IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 17 FEB 26 CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
NEWS 18 MAR 15 WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 19 MAR 16 CASREACT coverage extended
NEWS 20 MAR 20 MARPAT now updated daily
NEWS 21 MAR 22 LWPI reloaded
NEWS 22 MAR 30 RDISCLOSURE reloaded with enhancements
NEWS 23 MAR 30 INPADOCDB will replace INPADOC on STN
NEWS 24 APR 02 JICST-EPLUS removed from database clusters and STN

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 09:55:19 ON 25 APR 2007

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'CAPLUS' ENTERED AT 09:55:40 ON 25 APR 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 25 Apr 2007 VOL 146 ISS 18
FILE LAST UPDATED: 24 Apr 2007 (20070424/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

```
=> acrylic or methacrylic
        275982 ACRYLIC
          1373 ACRYLICS
        276370 ACRYLIC
                  (ACRYLIC OR ACRYLICS)
         78215 METHACRYLIC
             7 METHACRYLICS
         78220 METHACRYLIC
                  (METHACRYLIC OR METHACRYLICS)
L1      315567 ACRYLIC OR METHACRYLIC

=> column
        416141 COLUMN
        107249 COLUMNS
L2      468770 COLUMN
                  (COLUMN OR COLUMNS)

=> 3 or three
       6877439 3
       1042058 THREE
            52 THREES
       1042093 THREE
                  (THREE OR THREES)
SYSTEM LIMITS EXCEEDED - SEARCH ENDED
The search profile you entered was too complex or gave too many
answers.  Simplify or subdivide the query and try again.  If you have
exceeded the answer limit, enter DELETE HISTORY at an arrow prompt
(=>) to remove all previous answers sets and begin at L1.  Use the
SAVE command to store any important profiles or answer sets before
using DELETE HISTORY.

=>  3  or three
       6877439 3
       1042058 THREE
            52 THREES
       1042093 THREE
                  (THREE OR THREES)
```

```
SYSTEM LIMITS EXCEEDED - SEARCH ENDED
The search profile you entered was too complex or gave too many
answers.  Simplify or subdivide the query and try again.  If you have
exceeded the answer limit, enter DELETE HISTORY at an arrow prompt
(=>) to remove all previous answers sets and begin at L1.  Use the
SAVE command to store any important profiles or answer sets before
using DELETE HISTORY.

=>  three
       1042058 THREE
            52 THREES
L3     1042093 THREE
                 (THREE OR THREES)

=> sections or partitions
        253081 SECTIONS
          7319 PARTITIONS
L4      259935 SECTIONS OR PARTITIONS

=> help search terms
HELP FOR 'SEARCH TERMS' IS NOT AVAILABLE
For information about help messages available in all files, enter
"HELP MESSAGES".  For information about help messages available for
the current file, enter "HELP DIRECTORY".  For a list of commands,
enter "HELP COMMANDS".

=> help messages
Many HELP messages are available to explain files and features of the
system.  Each command has a separate explanation that can be viewed
by entering HELP (or ?) followed by the command name at an arrow
prompt (=>).  Enter HELP COMMANDS for a list of commands.

Example: => HELP PRINT

Some commands have detailed help for specific functions for that
command.  At an arrow prompt, enter HELP followed by the command name
and the specific option:

HELP DISPLAY (ACC, BROWSE, COST, EXPAND, FORMAT, HISTORY, L#, PRINT,
              QUERY, SAVED, SCAN, SELECT, SET, TOLERANCE, TSORT,
              UNIT)
HELP PRINT (ACC, L#, TSORT)
HELP READ (FOLDER, MAIL, NAMELIST, PUBLIC)
HELP SEARCH (PROJECTIONS, RANGE, STEPS, SUBSET)
HELP SET (ABBREVIATION, ACCOUNT, AUHELP, AUTOSEARCH, BANNER, CLUSTER,
          COST, DCLUSTER, DETAIL, DFORMAT, DUPORDER, EXPAND, FAX,
          FAXC, FAXN, FIELD, FORMAT, GRAPHICS, HEADING, HIGHLIGHTING,
          INTERPRET, KWIC, LCOST, LINELENGTH, LOGIN, MAILID, NAMELIST,
          NOTICE, PADDING, PAGELENGTH, PASSWORD, PATENT, PERMANENT,
          PLURALS, POSTINGS, PRINT, PROXIMITY, RANGE, RELATION, ROLES,
          ROUND, SELORDER, SFIELDS, SMARTSELECT, STATUS, STEPS,
          SUBSET, TERM, TLANGUAGE, TOLERANCE, UNIT)

The logical search operators have HELP messages to explain their
functions.  At an arrow prompt, enter HELP followed by the operator:

HELP AND
HELP OR
HELP NOT

HELP (W)
HELP (A)
HELP (L)
HELP (P)
HELP (S)
```

HELP (NOTPROXIMITY)

HELP NUMERIC

For more information on the available operators, enter HELP OPERATORS at an arrow prompt.

Each file has its own set of HELP messages. For a list of files, enter HELP FILE NAMES. For information about helps available for the current file, enter HELP DIRECTORY.

Messages that are available on other topics:

HELP COMMAND STACKING
HELP FILE COST
HELP LIMITS
HELP MAIL
HELP PACKAGES
HELP RESERVED
HELP SAVED NAMES
HELP TRUNCATION

=> help n(W)
HELP FOR 'N(W)' IS NOT AVAILABLE
For information about help messages available in all files, enter "HELP MESSAGES". For information about help messages available for the current file, enter "HELP DIRECTORY". For a list of commands, enter "HELP COMMANDS".

=> help (W)
The (W) operator is used to search for terms that are adjacent to each other in the order specified. The following forms of the (W) operator are available:

Operator	Search Example	Retrieves
(W)	SHALE (W) OIL	Records that contain SHALE OIL
(nW)	AIR (3W) POLLUTION	Records that contain AIR followed by POLLUTION with 0 to 3 intervening terms, e.g., AIR AND WATER POLLUTION
(XW)	GOLD (XW) ALLOY	Records that contain GOLD followed by ALLOY anywhere within the same field or information unit, e.g., GOLD-NICKEL ALLOY
(NOTW)	LIME (NOTW) JUICE	Records that contain an occurrence of LIME not immediately followed by JUICE. Records that contain an occurrence of LIME JUICE, in addition to an occurrence of LIME not immediately followed by JUICE, would be retrieved
(nNOTW)	FIBER (5NOTW) OPTICS	Records that contain an occurrence of FIBER not followed by OPTICS with 0 to 5 intervening terms. Records that contain an occurrence of FIBER followed by OPTICS with 0 to 5 intervening terms, in addition to an occurrence of FIBER not followed

		by OPTICS with 0 to 5 intervening terms, would be retrieved
(XNOTW)	AMINO (XNOTW) CHLORO	Records that contain an occurrence of AMINO not followed by CHLORO anywhere within the same field or information unit. Records that contain an occurrence of AMINO followed by CHLORO in the same field or information unit, in addition to an occurrence of AMINO not followed by CHLORO in the same field or information unit, would be retrieved

n = any number from 0 to 9999

=> Help (A)
The (A) operator is used to search for terms that are adjacent to each other in any order, in the same subfield or information unit, e.g., the same sentence.

The following forms of the (A) operator are available:

Operator	Search Example	Retrieves
(A)	SHALE (A) OIL	Records that contain SHALE OIL or OIL SHALE
(nA)	AIR (3A) POLLUTION	Records that contain AIR preceded or followed by POLLUTION with 0 to 3 intervening terms, e.g., AIR AND WATER POLLUTION
(XA)	GOLD (XA) ALLOY	Records that contain GOLD preceded or followed by ALLOY anywhere within the same subfield or information unit, e.g., GOLD-NICKEL ALLOY. Records that contain an occurrence of GOLD preceded or followed by ALLOY within the same subfield or information unit, in addition to an occurrence of GOLD not preceded or followed by ALLOY in the same subfield or information unit, would be retrieved
(NOTA)	LIME (NOTA) JUICE	Records that contain an occurrence of LIME not immediately preceded or followed by JUICE. Records that contain LIME immediately preceded or followed by JUICE, in addition to an occurrence of LIME not immediately preceded or followed by JUICE, would be retrieved
(nNOTA)	FIBER (5NOTA) OPTICS	Records that contain an occurrence of FIBER not preceded or followed by OPTICS with 0 to 5 intervening terms. Records that contain an occurrence of FIBER

		preceded or followed by OPTICS with 0 to 5 intervening terms, in addition to an occurrence of FIBER not preceded or followed by OPTICS with 0 to 5 intervening terms, would be retrieved
(XNOTA)	AMINO (XNOTA) CHLORO	Records that contain an occurrence of AMINO not preceded or followed by CHLORO anywhere within the same subfield or information unit. Records that contain an occurrence of AMINO preceded or followed by CHLORO in the same subfield or information unit, in addition to an occurrence of AMINO not preceded or followed by CHLORO in the same field or information unit, would be retrieved

n = any number from 0 to 9999

=> d file
'FILE' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS --------- GI and AB
ALL --------- BIB, AB, IND, RE
APPS -------- AI, PRAI
BIB --------- AN, plus Bibliographic Data and PI table (default)
CAN --------- List of CA abstract numbers without answer numbers
CBIB -------- AN, plus Compressed Bibliographic Data
CLASS ------- IPC, NCL, ECLA, FTERM
DALL -------- ALL, delimited (end of each field identified)
DMAX -------- MAX, delimited for post-processing
FAM --------- AN, PI and PRAI in table, plus Patent Family data
FBIB -------- AN, BIB, plus Patent FAM
IND --------- Indexing data
IPC --------- International Patent Classifications
MAX --------- ALL, plus Patent FAM, RE
PATS -------- PI, SO
SAM --------- CC, SX, TI, ST, IT
SCAN -------- CC, SX, TI, ST, IT (random display, no answer numbers;
SCAN must be entered on the same line as the DISPLAY,
e.g., D SCAN or DISPLAY SCAN)
STD --------- BIB, CLASS

IABS -------- ABS, indented with text labels
IALL -------- ALL, indented with text labels
IBIB -------- BIB, indented with text labels
IMAX -------- MAX, indented with text labels
ISTD -------- STD, indented with text labels

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

HIT --------- Fields containing hit terms
HITIND ------ IC, ICA, ICI, NCL, CC and index field (ST and IT)
containing hit terms
HITRN ------- HIT RN and its text modification

```
HITSTR ------ HIT RN, its text modification, its CA index name, and
              its structure diagram
HITSEQ ------ HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
              its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
KWIC -------- Hit term plus 20 words on either side
OCC --------- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field
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All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR,
FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC
to view a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):file caplus
'FILE' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'
'CAPLUS' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS --------- GI and AB
ALL --------- BIB, AB, IND, RE
APPS -------- AI, PRAI
BIB --------- AN, plus Bibliographic Data and PI table (default)
CAN --------- List of CA abstract numbers without answer numbers
CBIB -------- AN, plus Compressed Bibliographic Data
CLASS ------- IPC, NCL, ECLA, FTERM
DALL -------- ALL, delimited (end of each field identified)
DMAX -------- MAX, delimited for post-processing
FAM --------- AN, PI and PRAI in table, plus Patent Family data
FBIB -------- AN, BIB, plus Patent FAM
IND --------- Indexing data
IPC --------- International Patent Classifications
MAX --------- ALL, plus Patent FAM, RE
PATS -------- PI, SO
SAM --------- CC, SX, TI, ST, IT
SCAN -------- CC, SX, TI, ST, IT (random display, no answer numbers;
              SCAN must be entered on the same line as the DISPLAY,
              e.g., D SCAN or DISPLAY SCAN)
STD --------- BIB, CLASS

IABS -------- ABS, indented with text labels
IALL -------- ALL, indented with text labels
IBIB -------- BIB, indented with text labels
IMAX -------- MAX, indented with text labels
ISTD -------- STD, indented with text labels

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

HIT --------- Fields containing hit terms
HITIND ------ IC, ICA, ICI, NCL, CC and index field (ST and IT)
              containing hit terms
HITRN ------- HIT RN and its text modification
HITSTR ------ HIT RN, its text modification, its CA index name, and
```

```
                its structure diagram
HITSEQ ------ HIT RN, its text modification, its CA index name, its
                structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
                its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
                structure diagram, plus NTE and SEQ fields
KWIC -------- Hit term plus 20 words on either side
OCC --------- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field
codes.  For a list of the display field codes, enter HELP DFIELDS at
an arrow prompt (=>).  Examples of formats include: TI; TI,AU; BIB,ST;
TI,IND; TI,SO.  You may specify the format fields in any order and the
information will be displayed in the same order as the format
specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR,
FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC
to view a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):end

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    17.70      17.91

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FILE COVERS 1907 - 25 Apr 2007  VOL 146 ISS 18
FILE LAST UPDATED: 24 Apr 2007  (20070424/ED)

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http://www.cas.org/infopolicy.html

=> d his

     (FILE 'HOME' ENTERED AT 09:55:19 ON 25 APR 2007)

     FILE 'CAPLUS' ENTERED AT 09:55:40 ON 25 APR 2007
L1        315567 ACRYLIC OR METHACRYLIC
L2        468770 COLUMN
L3       1042093 THREE
L4        259935 SECTIONS OR PARTITIONS

     FILE 'CAPLUS' ENTERED AT 10:02:50 ON 25 APR 2007

=> l3 (5A) l4
L5          2408 L3 (5A) L4
```

```
=> l2 (10A) l5
L6            21 L2 (10A) L5

=> l1 (l)l6
L7             0 L1 (L)L6

=> l1 and l6
L8             0 L1 AND L6

=> l2 (5A) l3
L9          2491 L2 (5A) L3

=> l1 (l)l9
L10            7 L1 (L)L9

=> d l10 1-7 ti

L10  ANSWER 1 OF 7  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Principal component analysis of nonlinear chromatography

L10  ANSWER 2 OF 7  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Method for purifying (meth)acrylic acid

L10  ANSWER 3 OF 7  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Division S-5-pedology: changes across artificial E-Bh boundaries formed
     under simulated fluctuating water tables

L10  ANSWER 4 OF 7  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Separation of thymidine from mixtures

L10  ANSWER 5 OF 7  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Empirical approach to solid-liquid mass transfer in a three-phase sparged
     reactor

L10  ANSWER 6 OF 7  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Improved technique for brackish water deionization by ion exchange

L10  ANSWER 7 OF 7  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Column design for adsorbent systems and the effect on mass transfer


=> d l10 2,7ti fbib abs
'7TI' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

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ABS --------- GI and AB
ALL --------- BIB, AB, IND, RE
APPS -------- AI, PRAI
BIB --------- AN, plus Bibliographic Data and PI table (default)
CAN --------- List of CA abstract numbers without answer numbers
CBIB -------- AN, plus Compressed Bibliographic Data
CLASS ------- IPC, NCL, ECLA, FTERM
DALL -------- ALL, delimited (end of each field identified)
DMAX -------- MAX, delimited for post-processing
FAM --------- AN, PI and PRAI in table, plus Patent Family data
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MAX --------- ALL, plus Patent FAM, RE
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SAM --------- CC, SX, TI, ST, IT
SCAN -------- CC, SX, TI, ST, IT (random display, no answer numbers;
              SCAN must be entered on the same line as the DISPLAY,
```

```
                e.g., D SCAN or DISPLAY SCAN)
STD ---------- BIB, CLASS

IABS --------- ABS, indented with text labels
IALL --------- ALL, indented with text labels
IBIB --------- BIB, indented with text labels
IMAX --------- MAX, indented with text labels
ISTD --------- STD, indented with text labels

OBIB --------- AN, plus Bibliographic Data (original)
OIBIB -------- OBIB, indented with text labels

SBIB --------- BIB, no citations
SIBIB -------- IBIB, no citations

HIT ---------- Fields containing hit terms
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                containing hit terms
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                its structure diagram
HITSEQ ------- HIT RN, its text modification, its CA index name, its
                structure diagram, plus NTE and SEQ fields
FHITSTR ------ First HIT RN, its text modification, its CA index name, and
                its structure diagram
FHITSEQ ------ First HIT RN, its text modification, its CA index name, its
                structure diagram, plus NTE and SEQ fields
KWIC --------- Hit term plus 20 words on either side
OCC ---------- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field
codes.  For a list of the display field codes, enter HELP DFIELDS at
an arrow prompt (=>).  Examples of formats include: TI; TI,AU; BIB,ST;
TI,IND; TI,SO.  You may specify the format fields in any order and the
information will be displayed in the same order as the format
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All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR,
FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC
to view a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):end

=> d l10 2,7 ti fbib abs

L10  ANSWER 2 OF 7  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Method for purifying (meth)acrylic acid
AN   2003:434509  CAPLUS
DN   139:7362
TI   Method for purifying (meth)acrylic acid
IN   Yada, Shuhei; Ogawa, Yasushi; Suzuki, Yoshiro; Takasaki, Kenji
PA   Mitsubishi Chemical Corporation, Japan
SO   PCT Int. Appl., 59 pp.
     CODEN: PIXXD2
DT   Patent
LA   Japanese
FAN.CNT 3
     PATENT NO.           KIND   DATE        APPLICATION NO.          DATE
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PI   WO 2003045890         A1    20030605    WO 2002-JP11308          20021030
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             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT,
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			US 2004-834075	A1 20040429

PATENT FAMILY INFORMATION:

FAN 2003:368891

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003137834	A	20030514	JP 2001-332008	20011030
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

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			US 2004-834075	A1	20040429

FAN 2003:424483

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI JP 2003160530	A	20030603	JP 2001-360437		20011127
WO 2003045890	A1	20030605	WO 2002-JP11308		20021030

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

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			JP 2002-131675	A	20020507
			WO 2002-JP11308	A1	20021030
			US 2004-834075	A1	20040429

AB A method for purifying a crude (meth)acrylic acid prepared by the vapor phase catalytic oxidation method, characterized in that a crude (meth) acrylic acid being removed of most parts of water and acetic acid is fed to a first distillation column of a purification system comprising three (a first to a third) distillation columns for distillation, the top fraction from the first distillation column is fed to the second distillation column for distillation, the resulting top fraction is recovered as a high purity (meth)acrylic acid product, the bottom fractions from the first and the second distillation columns are fed to the third distillation column for distillation, and the resulting top fraction is fed to the first distillation column. The method can be used for producing a high purity (meth)acrylic acid from a crude (meth)acrylic acid prepared by the vapor phase catalytic oxidation method.

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
TI Column design for adsorbent systems and the effect on mass transfer
AN 1976:423146 CAPLUS
DN 85:23146
TI Column design for adsorbent systems and the effect on mass transfer
AU Dunlop, E. H.; Langley, P. G.
CS Liver Unit, King's Coll. Hosp., London, UK
SO Artif. Liver Support, Proc. Int. Symp. (1975), Meeting Date 1974, 310-18. Editor(s): Williams, Roger; Murray-Lyon, Iain M. Publisher: Pitman, London, Engl.
CODEN: 32NZAR
DT Conference
LA English
AB Design problems and adsorption kinetics of packed-bed perfusion columns are discussed. The abnormalities were investigated by dye-tracer studies on 4 different designs of hemoperfusion column containing activated charcoal coated with an acrylic copolymer. Three of the columns were cylindrical (diams. 10.2, 4.4, and 2.5 cm) and 1 was double-cone shaped. The mass-transfer coeffs. were measured for the removal of paracetamol from plasma at a flow rate of 150 cm3/min. The results are presented graphically. The diffusion through the boundary layer is the rate-limiting step in the adsorption on charcoal and the effect is not limited to coated charcoal only. Raising mass transfer always results in an increased pressure drop irrespective of design changes. However, for a given pressure drop, a high-velocity column gives the same removal with considerably reduced mass of charcoal.

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	19.69	37.60

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.56	-1.56

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:08:51 ON 25 APR 2007